



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,016	09/10/2002	Olivier Boireau	71522-2	5731
20915	7590	03/21/2003		

MCGARRY BAIR PC
171 MONROE AVENUE, N.W.
SUITE 600
GRAND RAPIDS, MI 49503

EXAMINER	
CRUZ, LOURDES C	
ART UNIT	PAPER NUMBER
2827	

DATE MAILED: 03/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/065,016

Applicant(s)

BOIREAU, OLIVIER

Examiner

Lourdes C. Cruz

Art Unit

2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 10 September 2002.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-9 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-9 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 10 September 2002 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.

- 4) Interview Summary (PTO-413) Paper No(s) _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the claimed circuit board, and the apparent (see 112 rejections below) claimed relationship between board and chip must be shown or the features canceled from the claims. No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are also objected to because it is unclear what 220 points to (for example, see p.5, last two lines). Also, 230 is described as inner portion ground contact points, and if 230 are points then it is not clear how the drawing show this feature. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The specification (including the abstract and claims) for other than reissue applications and reexamination proceedings, and any amendments for applications (including reissue applications) and reexamination proceedings to the specification, except as provided for in §§ 1.821 through 1.825, must have:

- (i) Lines that are 1 1/2 or double-spaced;
- (ii) Text written in a non-script type font (e.g., Arial, Times Roman, or Courier) lettering style having capital letters which are at least 0.21 cm (0.08 inch) high; and
- (iii) Only a single column of text.

The disclosure contains a font that is too big and does not conform to common practice.

Claim Objections

All claims are objected to because of the following informalities: The numbering of the claim does not concord with common practice. It is suggested they be numbered 1,2,3...9, instead. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter that the applicant regards as his invention.

Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1 and 5:

It is unclear whether the claims recite an IC package, a circuit board, or the combination of both. For this Action, the examiner assumes a circuit board is being claimed. Also, the claims define "portions" of contact points. Is Applicant referring to whole contact points, or not? For this Action, the examiner assumes whole contact points are being defined. Moreover, the claims recite "configured substantially in said...", which raises the question of whether the contacts are not configured in the recited "portion(s)". The use of "substantially" through out the claim has rendered the structural relationship between defined parts unascertainable.

In Addition to the above, in claim 1:

The claim recites, "said at least one integrated circuit package device circuit board". This is not only unclear, but the board lacks antecedent basis. Also, the claim recites, "said contact points" in line 4. Which contact points? For the Action the examiner assumes other contact points, belonging to the plurality but not inner.

Claims 3,4,7 and 8 fail to further limit the dependent claims. It is unclear to the examiner how claims 3 and 7 further structurally describe the invention. As for claims 4 and 8, it is unclear how a dependent claim can obviate what it depends from and also

depend from it without recitation of such. For the purpose of this examination, the examiner assumes no further structure being defined by claims 3,4,7 and 8.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Arima et al. (US6479758).

Arima et al. discloses (see figures 5-6) a wiring board 1A having a plurality of contact points, the wiring board comprising:

An inner portion of contact points (anything inward from 5 towards 25) an outer portion of contact points (outward from 5 toward 7) the circuit board comprising at least one of the following:

- One or more power supply contacts 6a in said outer portion
- One or more timing or frequency contacts 6b in said outer portion
- One or more ground contacts 5 configured in said inner portion; and
- One or more data or high speed signal contacts 4b in said inner portion

Arima et al. also discloses a circuit board wherein:

- The ground contacts are provided along a bisectional axis 7 (goes across), through said outer portion of contacts to facilitate a ground path from outside area (see 7 is in outer periphery) to said inner portion

Regarding claim 9, the claim fails to further structurally define the disclosed device. Rather, the claim merely further recites an intended use limitation that does not distinguish the disclosed device from the device of the prior art.

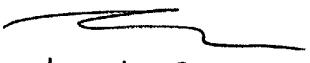
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lourdes C. Cruz whose telephone number is 703-306-5691. The examiner can normally be reached on M-F 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Application/Control Number: 10/065,016
Art Unit: 2827

Page 7

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.


Lourdes C. Cruz
Examiner
Art Unit 2827

Lourdes Cruz
March 15, 2003


KAMAND CUNEOP
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800